

Date: Sun, 17 Jul 94 02:38:04 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #801
To: Info-Hams

Info-Hams Digest Sun, 17 Jul 94 Volume 94 : Issue 801

Today's Topics:

 Bul 334 FEMA and the RACES
 BUL 335: FEMA & the RACES 2/2
 GB2RS News 17th July 1994
 Keps 7/16
 Paket 6.0 (2 msgs)
 Please read: Ham Radio Bootcamp (Long)
 rec.radio.amatuer.antenna still alive?
 SAREX Update 7/17 at 7:30 UTC

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Problems you can't solve otherwise to brian@ucsd.edu.

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(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 17 Jul 94 05:29:10 GMT
From: news-mail-gateway@ucsd.edu
Subject: Bul 334 FEMA and the RACES
To: info-hams@ucsd.edu

Bid: \$RACESBUL.334
Subject: Bul 334 FEMA and the RACES

TO: ALL EMERGENCY MANAGEMENT AGENCIES VIA AMATEUR RADIO
INFO: ALL COMMUNICATIONS VOLUNTEERS IN GOVERNMENT SERVICE
INFO: ALL AMATEURS U.S (@USA: INFORMATION); CAP, MARS
FROM: CA GOVERNORS OFFICE OF EMERGENCY SERVICES
 (W6SIG@WA6NWE.CA) Ph: 916-262-1600
 2800 Meadowview Rd., Sacramento, CA 95832

Landline BBS Open to All: 916-262-16577

RACESBUL.334 MGT - Policy: FEMA & the RACES 1/2

RELEASE DATE: July 11, 1994

Question: Doesn't FEMA Run the RACES?

Response: FEMA has certain responsibilities, but "running" RACES (in the sense of control) is not included. The RACES is a LOCAL or STATE governments emergency communications reserve, sponsored and controlled by that government which sets up the unit. FEMA has NO jurisdiction or authority over the local or state government, including that of its RACES, except in the area of matching funds. In the past FEMA did provide a "Guide" to assist local governments in establishing the RACES. The operative word is "guide".

Statements that "FEMA sponsors RACES" or words to that effect have appeared in several publications. Unfortunately some interpret that to mean that it "runs" the RACES program. It does not. The RACES unit is sponsored by the local or state government with a civil defense council that adopts a RACES plan, appoints a Radio Officer and establishes a RACES unit. To sponsor is to control. FEMA does NOT control the RACES. The RACES is AUTHORIZED by the federal government for use by the local or state government to be controlled by local or state government. No federal sponsorship is required. Only the government which adopts a RACES program is responsible for that unit. It takes NO action by FEMA to allow, permit, support or make possible the RACES unit. Local or state government can utilize it without any assistance, direction or "sponsorship" by FEMA unless they seek matching funds, in which case certain requirements may apply.

The RACES provisions in the FCC regulations do not preclude the Amateur Service from other forms of Public Safety Communications. Local government could achieve the same result by establishing a public safety emergency communications reserve and calling it something other than "RACES". However, the essential difference between such a program and RACES would be two fold: (1) it could not be used in a Presidential Declaration of certain National Emergencies and (2) FEMA would not assist with funding as it now does with the RACES program when adopted and approved plans are filed with the State and FEMA.

Continued, part 2.

eom

RACES Bulletins are archived on the Internet at ucsd.edu in hamradio/races or in hamradio/packet/tcpip/incoming and can be retrieved using FTP. The opinions stated are those of the author of the bulletin and not the poster.

Date: 17 Jul 94 05:30:06 GMT
From: news-mail-gateway@ucsd.edu
Subject: BUL 335: FEMA & the RACES 2/2
To: info-hams@ucsd.edu

Bid: \$RACESBUL.335
Subject: BUL 335: FEMA & the RACES 2/2

From: W6WWW@KD6XZ.#NOCAL.CA.USA.NOAM
To : RACES@ALLUS

TO: ALL EMERGENCY MANAGEMENT AGENCIES VIA AMATEUR RADIO
INFO: ALL COMMUNICATIONS VOLUNTEERS IN GOVERNMENT SERVICE
INFO: ALL AMATEURS U.S (@USA: INFORMATION); CAP, MARS
FROM: CA GOVERNORS OFFICE OF EMERGENCY SERVICES
(W6SIG@WA6NWE.CA) Ph: 916-262-1600
2800 Meadowview Rd., Sacramento, CA 95832
Landline BBS Open to All: 916-262-1657

RACESBUL.335 MGT - Policy : FEMA & the RACES 2/2
RELEASE DATE: July 18, 1994

Question: Does FEMA activate RACES ?

Response: NO. Statements to that effect are incorrect.

First, there is no Federal RACES.

Second, The agency that activates RACES is the one that sponsors (or has) the RACES unit: i.e., the county, city or state. NO action of FEMA, or of State OES, is required to activate the RACES unit of a jurisdiction (i.e., County, City) that has need of its abilities in support of its communications. Even in Hurricane Andrew and the Northridge quake (both major disasters) FEMA had to wait for a request from the State before it could go in to do anything. That's part of the legal separation of government in the U.S.

A RACES unit is a part of the government jurisdiction that it serves. It provides PUBLIC SAFETY communications and related

duties for that specific local or state government [or to other governments that request mutual aid from them under a Mutual Aid plan.]

The RACES (or equivalent emergency communications unit) function is to establish and support command, liaison and communications circuits for the Public Safety requirements of THAT government. Hence its utilization can be sparse: (1) if the local government EMA people haven't grasped the programs full capability; (2) if other Public Safety circuits are intact; (3) if the support needed is administrative, rather than that of operators (as most Amateurs have yet to realize how to be of aid without operating a radio.) As more RACES participants realize just how they can become "part of government" in mental concept as well as in practicality (as unpaid staff) the more that government begins to rely on them and turn to them the very first thing in any escalating event, no matter how small. When that happens, the hassle over "activation" becomes moot.
[end of 2 part series by Cary Mangum, LLB., JD., W6WWW, Chief State Radio Officer.]

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Date: Fri, 15 Jul 1994 18:08:38 +0000
From: pipex!demon!llondel.demon.co.uk!dave@uunet.uu.net
Subject: GB2RS News 17th July 1994
To: info-hams@ucsd.edu

Good morning. It's Sunday the 17th of July and here is the GB2RS news broadcast, prepared by the RSGB and intended for all radio amateurs and short-wave listeners.

First the headlines, all of which concern licence changes:-

Power restrictions have been lifted on parts of the 1.8 and 50MHz bands,

Antenna and ERP restrictions no longer apply on 50MHz,

Unattended digital operation now needs notifying to the RIS, and

There are changes to the computer logging requirements.

With immediate effect, the Amateur and Amateur (Novice) Licences have been amended by the Radiocommunications Agency. In a Gazette notice, to be published this Monday, the 18th, the RA announced the following major changes:

Holders of the full Amateur Licence (A) may use 26dBW (that's 400 watts) on the whole of the sub-band 1.81 to 1.85MHz, removing the power restriction on 1.81 to 1.83MHz. The power limit for 1.85 to 2MHz remains at 15dBW.

Holders of the full Amateur Licences (A) and (B) may use 26dBW between 50 and 51MHz. The maximum permitted power between 51 and 52MHz is still 20dBW. The ERP and antenna height restrictions have been removed from the whole of the 50 to 52MHz band, allowing the use of any antenna. Maritime Mobile is now permitted on 50MHz.

Holders of all types of licence, full and Novice, (A) and (B), are now required to notify their local Radio Investigation Service office of unattended digital operation. This additional restriction has, unfortunately, been necessary following a number of problems with unattended operation. The procedure is far less onerous than that required for a repeater or beacon on a hilltop site, and requires only the agreeing of suitable emergency close-down procedures.

The final change, which also affects all licensees, concerns logs which are kept on a computer. At the main address, a licensee must be able to provide a print-out of the log on demand. When not at the main address, it must be possible to provide a copy on disk, followed later by a print-out.

The full text of these changes is available in the London, Belfast and Edinburgh Gazettes, obtainable from HMSO stationers. The full text, plus explanatory notes and a list of RIS addresses will be published in the August edition of Radio Communication, scheduled to be posted to all RSGB members in the week commencing the 25th of July. In the meantime, members should contact their RLO or Headquarters if they have any queries.

A DXpedition to Lithuania, is scheduled to take place from next Saturday the 23rd until Monday the 1st of August. David, G0BZF and a multi national group will operate as LY94BDX. Operation is to be on all bands CW, SSB and packet but UK stations are recommended to check 14.055, 14.295MHz, 3.555 or 3.72MHz. Skeds can be arranged by contacting G0BZF on 0932 566435.

Now some items of HF DX news from the weekly RSGB DX News Sheet which is edited by Brendan McCartney, G4DY0.

Date: 16 Jul 94 23:56:52 GMT
From: news-mail-gateway@ucsd.edu
Subject: Keps 7/16
To: info-hams@ucsd.edu

SB SAREX @ AMSAT \$STS-65.011
SAREX Keps 7/16 at 10:20 UTC

Greenbelt, MD 7/16 at 10:20 UTC

At this time, the official SAREX Orbital element set for the STS-65 Space Shuttle Mission is set GSFC-025a with the NORAD drag values corrected by Gil Carman, WA5NOM. This set was generated by Ron Parise, WA4SIR at the Goddard Space Flight Center. Predictions with this set were 3 seconds earlier than GSFC-023a at 0830 UTC on orbit 123.

STS-65
1 23173U 94039A 94197.27576731 0.00077033 00000-0 23048-3 0 259
2 23173 28.4687 311.0423 0002865 30.0967 329.9809 15.90866972 1221

Satellite: STS-65
Catalog number: 23173
Epoch time: 94197.27576731 (16 JUL 94 06:37:06.30 UTC)
Element set: GSFC-025a
Inclination: 28.4687 deg
RA of node: 311.0423 deg Space Shuttle Flight STS-65
Eccentricity: 0.0002865 Keplerian Elements
Arg of perigee: 30.0967 deg
Mean anomaly: 329.9809 deg
Mean motion: 15.90866972 rev/day Semi-major Axis: 6677.9878 Km
Decay rate: 7.7033E-04 rev/day*2 Apogee Alt: 301.51 Km
Epoch rev: 122 Perigee Alt: 297.69 Km

NOTE - This element set is based on NORAD element set # 025.
The spacecraft has been propagated to the next ascending node, and the orbit number has been adjusted to bring it into agreement with the NASA numbering convention.

Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group

/EX

Date: 16 Jul 1994 03:34:01 -0400

From: newstf01.cr1.aol.com!search01.news.aol.com!not-for-mail@uunet.uu.net
Subject: Paket 6.0
To: info-hams@ucsd.edu

I don't have access to ftp. Is there any other place I can get paket 6.0?

tnx and 73, Eric Thompson, KB7PMW

Date: 16 Jul 1994 14:23:40 -0400
From: noc.near.net!chaos.dac.neu.edu!not-for-mail@uunet.uu.net
Subject: Paket 6.0
To: info-hams@ucsd.edu

In article <3082h9\$991@search01.news.aol.com>, KB7PMW <kb7pmw@aol.com> wrote:
>I don't have access to ftp. Is there any other place I can get paket 6.0?
>
>tnx and 73, Eric Thompson, KB7PMW
>
>

You can still utilize FTP via ftp-by-mail:

(Extract from Scott Yanoff's Internet Services list)

-FTP via EMail mail ftpmail@decwrl.dec.com or ftpmail@cs.uow.edu.au
mail bitftp@pucc.princeton.edu or ftpmail@lth.se
mail bitftp@dearn or to bitftp@vm.gmd.de (Europe only)
mail ftpmail@ftp.uni-stuttgart.de
mail ftpmail@grasp.insa-lyon.fr or ftpmail@ieunet.ie
mail bitftp@plearn.edu.pl or bitftp@plearn (Europe)
mail ftpmail@doc.ic.ac.uk or ftpmail@sunsite.unc.edu
Body-of-letter: help or ftplist for a list of anon. ftp sites.
NOTE: FOR FTP SITES, LOGIN AS anonymous, password is your email address.

--
Scott Ehrlich, Amateur Radio Callsign: wylz wylz@ka2jxi.ny [AX.25 Packet]
How to reach me: wylz@neu.edu [Internet], wylz@k2cc.ampr.org [TCP/IP Packet]
Boston ARC ftp archives: ftp oak.oakland.edu /pub/hamradio
Boston ARC Web page: <http://www.acs.oakland.edu/barc.html>

Date: 16 Jul 1994 09:13:02 -0400

From: newstf01.cr1.aol.com!search01.news.aol.com!not-for-mail@uunet.uu.net
Subject: Please read: Ham Radio Bootcamp (Long)
To: info-hams@ucsd.edu

In article <Ct0974.tz@news.Hawaii.Edu>, jeffrey@kahuna.tmc.edu (Jeffrey Herman) writes:

>Yes, but that would be A1 emission; A2 is where the carrier is kept on the air and a tone oscillator is used to send code - similar to how your repeater's ID is sent. I just need to know if A2 is legal or not.

If someone can give me the CFR part number for 11M I'll check to see if the library has a copy and report back on what's legal.

^^

I looked the regulations up at the library and found it would probably need specific interpretation by the FCC. It states that no one-way communications short of emergency, traveler assistance, brief tests, or voice paging were allowed. BUT, if you are sending code practice to a specific station(s) this is NOT one way communications in my opinion and would be allowed since you are communicating a signal with information content to another station(s).

I will contact the FCC and see if they can give me an interpretation on this. I think that with all the other "junk" going on on those frequencies that constructive activities will be encouraged. But then we are dealing with the government, aren't we? ;-)

I'll let you know.

- Rob, N1NTE

Date: 16 Jul 1994 11:15:02 -0400
From: newstf01.cr1.aol.com!search01.news.aol.com!not-for-mail@uunet.uu.net
Subject: rec.radio.amatuer.antenna still alive?
To: info-hams@ucsd.edu

In article <1994Jul15.120359.112@drager.com>, landisj@drager.com (Joe Landis - System & Network Mgr) writes:

>I've not seen anything in the rec.radio.amateur.antenna group lately. Has it
>been renamed, or do I need to look into a feed problem?

It's still there, getting 10-30 messages per day.

Danny Goodman AE9F/6

Date: 17 Jul 94 08:14:11 GMT
From: news-mail-gateway@ucsd.edu
Subject: SAREX Update 7/17 at 7:30 UTC
To: info-hams@ucsd.edu

SB SAREX @ AMSAT \$STS-65.012
SAREX Update 7//17 at 7:30 UTC

Greenbelt, MD July 17, 1994 at 7:30 UTC

SAREX Schools

The school group contacts with the Space Shuttle Columbia crew are nearly complete. Twelve of the thirteen schools planned for this mission have had successful contacts. The Bair Middle School in Sunrise, Florida initiated the school group contact parade on Saturday July 9. 22 students communicated with mission commander Bob Cabana, KC5HBV. Commander Cabana has been at the mike for most of the school contacts for this flight. He has told the students to "Study hard, especially in science and math" and to "not give up." He stated further that: "I was not selected to be an astronaut on my first try, but I kept trying and that is why I am here today...so keep trying!."

In addition to the Bair School, Commander Cabana also communicated with the Sacred Hearts Academy in Honolulu, Hawaii on July 10, the Fronhofer Realschule in Ingolstadt, Germany and the Richland Elementary in Ft. Worth Texas on Monday July 11 and the Our Lady Queen of Heaven school on Tuesday July 12. KC5HBV was also at the mike during the South Seminole Middle School contact in Casselberry Florida and the Washington Elementary School District contact in Phoenix, Arizona on Wednesday July 13. On Wednesday July 14, Bob Cabana had a 3.5-4 minute chat with the students at Brentwood School in Sandersville, Georgia and the students at the West Oak High School in Westminster, South Carolina. During the West Oak contact, AM radio station WGOG broadcast the SAREX contact live. It was estimated that 10,000 people listened to this live broadcast. On Saturday July 16, the students at the Granite Mountain Middle School in Prescott, Arizona had a very early morning (5:53 am) contact with

Commander Cabana. 13 students asked their questions during their pass through a SAREX telebridge in Corpus Christi, Texas. On the morning of July 15, pilot Jim Halsell answered 8 questions from an excited school group at the West Monroe High School in West Monroe, Louisiana. At the conclusion of the contact, West Monroe contact coordinator Mark Ketchell commented that as a result of the SAREX contact it looks like there may be a new amateur radio club forming at the school. Many of the school group contacts, including the West Monroe High School, have been transmitted live via WA3NAN.

Japanese payload specialist Chiaki Mukai "Phoned Home" through SAREX on Wednesday July 13 by talking to a youth group in Japan. Despite it being a 2:03 in the morning, ten students at the Tatebayashi Children's Science Exploratorium in Gunma, Japan communicated with Dr. Mukai through the SAREX radio. All that witnessed this contact could sense the emotionally filled replies from Dr. Mukai as she answered her homeland student's questions in Japanese. When one of the students asked about the shuttle food, Dr. Mukai proudly mentioned that the STS-65 crew had a Japanese dinner the night before. The contact was shown throughout the Exploratorium on closed circuit TV. Sixty people, all Japanese media, crowded in the room where the students made contact with Dr. Mukai. This contact was covered by all the major Japanese television stations and several radio stations and newspapers. From all accounts, this contact appears to be the most comprehensive coverage given to SAREX. The SAREX Working group will share more information as we receive it.

Most of the above school groups were completed using AMSAT's telebridge system. The telebridge system is an international network of seasoned satellite ground stations that relay the communications of the astronauts from their station to the school through a phone bridge. Darome Telecommunications in Chicago donates their services to SAREX for these events. Bob Douglas, W5GEL, and Bob Diersing, N5AHD, in Texas and Dick Flagg, WH6CHU and his team in Hawaii were the SAREX team's primary telebridge ground stations for this mission.

Future SAREX operations

With nearly all the school group contacts complete, two school group backup passes have been cleared for possible general QSO opportunities. While we cannot guarantee availability, there is a high probability that the STS-65

crew will have the SAREX radio (packet or voice) operational over the continental U.S. on these passes. These opportunities include a pass on orbit 141 at MET 8 days 18 hours 45 minutes (7/17 at 11:28 UTC) and a pass that occurs around MET 9 days 18 hours 48 minutes (7/18 at 11:31 UTC). The SAREX downlink frequency is 145.55 MHz. Voice uplinks are 144.91, 144.93, 144.95, 144.97 and 144.99 (except Europe). For European hams, the voice uplinks are 144.80, 144.75 and 144.70. STS-65 voice callsigns are KC5HBV (Bob Cabana) and KC5FVF (Don Thomas). The worldwide packet uplink frequency is 144.49. The packet radio callsign is W5RRR-1. Please note that the attitude of the shuttle orbiter provides a clear path for SAREX operations during the last half of the 8 minute period when the shuttle is above your horizon. Our school group contacts were averaging 3.5-4 minute contacts. So don't give up after the first couple of minutes after the scheduled AOS. Good Luck!!

Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group

/EX

Date: (null)
From: (null)

Date: Sat, 16 Jul 94 12:38:21 -0500
From: news.delphi.com!usenet@uunet.uu.net
To: info-hams@ucsd.edu

References <301ja7\$495@wizard.uark.edu>, <1994Jul14.162950.7248@ve6mgs.ampr.org>, <3067bb\$on4@wizard.uark.edu>
Subject : Re: CALL YOUR CONGRESSPERSON!!! (was Re: FCC Delays now at 17 we

Peter Laws <plaws@comp..uark.edu> writes:

>I am fully aware that amateurs get a free ride in the US of A, although
>the FCC is about to start selling callsigns, thereby diluting yet another
>amateur radio tradition. (Before someone screams about the \$5.75 test
>fee remember that the FCC sees none of that)

Peter: Since we all pay federal income tax (and in the case of younger hams,

it is their parents who are paying federal taxes), it seems to me that we ARE directly paying for our licenses anyway. If congresspeople truly understand the role that radio amateurs play in providing communications during national emergencies, it would seem to me that they would move quickly to have the FCC clean this mess up. There is some supervisor, or manager, or department director somewhere in the FCC who doesn't realize the dimensions of the this license

backlog problem. I would hate see people give up on amateur radion because they got tired of waiting for the license. I have been waiting about five weeks for my license and don't look forward to waiting another twelve weeks.
73 Joe Keenan

Date: (null)

From: (null)

And from the Principality of Seborga, some 25km north-east of Monaco, 3A2LF will sign 0S0C from now until Monday the 18th on CW only. I1RBJ is also active as 0S1A over the weekend.

Now the rallies we know of for today, Sunday the 17th of July:

The McMichael Rally and Car Boot Sale is being held at the Haymill Youth and Community Centre, Burnham Lane, near Burnham railway station, Slough. Doors open 10.30am. The event features a car boot sale, no advanced booking is required. Talk-in will be on 2 metres, channel S22.

The Radio Amateur Invalid and Blind Club (RAIBC) Romsey Picnic is being held at Broadlands, Romsey, Hampshire. All members, families, friends and supporters are welcome. The event features a junk sale, a bring and buy stall and a grand draw. Refreshments will be available and talk-in will be on 2 metres, channel S22. The callsign GB0IBC, will be aired throughout the event.

Next the two events we know of for next Sunday the 24th of July:

The Colchester Radio and Computer Rally is to be held at St Helena School, Sheepen Road, Colchester, adjacent to the Colchester inner bypass. The event, which opens at 10am, has trade stands featuring a wide range of radio and computer items, a car boot sale and a bring and buy stall. RSGB Morse Tests will be available on demand, but remember to bring two passport size photographs. Talk-in will be on 2 metres, channel S22. For further details contact Frank, G3FIJ on 0206 851189.

The first Humber Bridge Amateur Radio Rally is to be held at the Exhibition Centre, Freightliner Road, off Clive Sullivan Way, Hull. The site has easy access and is one mile from the bridge. Doors open at 11am, 10.30 for disabled visitors. The event features a bring and buy

stall. Refreshments will be available and talk-in will be on 2 metres, channel S22. For further details and a booking form contact Roly, G0UKS on 0482 837042.

Now for the HF contest news:

The RSGB Low Power Field Day CW Contest takes place today Sunday the 17th July from 0900 to 1200 and from 1300 to 1600 UTC, using frequencies in the range 3.510 to 3.560MHz and 7.010 to 7.040MHz. See April's RadCom page 80 for full details.

Next some VHF contest news:

The RSGB 144MHz Low Power Contest will take place next Saturday the 23rd from 1400 to 2200 UTC. It features four entry sections: single operator fixed, single operator portable, all others and Listener.

The RSGB 432MHz Low Power Contest will take place next Sunday the 24th from 0800 to 1400UTC. April RadCom has further details of both of these low power events.

Special event stations active this week include:

GB800DON, operated next Saturday the 23rd, by members of RAF Finningley Amateur Radio Society for Doncaster's 800 years Festival Celebration. The station will be located at the Gala event at Stainforth Welfare using HF CW and SSB, plus FM and SSB on 2 metres and 70cm.

GB1WSF, Washington School Festival, will be active from tomorrow, Monday the 18th until Friday the 22nd of July from Washington School in Tyne and Wear. Operation will be on VHF, UHF, Packet and SSTV with the students taking part in the activities and demonstrations of amateur radio.

During this weekend, many special event stations will be active from lifeboat stations. This is to raise money for the Worked All Britain 25th Anniversary Lifeboat Appeal. Full details can be found in the July RadCom.

And now the solar factual data:

The period from the 4th to the 10th of July has seen an increase in solar activity with an M flare and numerous B flares every day over the period. The geomagnetic activity has varied between quiet to unsettled but the general decline has continued and levels are now the lowest since last November.

The sunspot index meaned at 59, an M1.3/1N flare was reported on the

7th, and B flares up to a B8.2/SF were reported every day. Solar flux levels did not vary much but tended to rise slightly, averaging 85 units. The 90 day mean flux level was 80 units on the 10th of July.

The geomagnetic Ap indices have continued to decline from very unsettled down to quiet, with the period averaging 8.7 units. However, the 10th was down to only 3 units. The state has been 'nil nothing to report' throughout the period. The aa indices, as supplied by the British Geological Survey for the 28th of June to the 4th of July, saw a general quietening with the daily index dropping from around 48 nanoTeslas to 19 by the 4th. The 28th was very disturbed with a midnight period of 102 nanoTeslas. By the 4th, levels had dropped to around 12 nanoTeslas. The period averaged 35.6 nanoTeslas.

Bartells rotation 2198 began on the 7th July. The X-Ray flux levels have remained high and averaged A5.8 units. The electron fluence levels of more than 2 mega electron volts are continuing to decline and were down to nearly normal levels by the 10th of July; this should help to stabilise the HF bands.

I'll repeat the figures. Spots - 59; Flux - 85; Ap index - 8.7; X-ray flux - A5.8 .

Now the ionospheric data for Central France:

The F2 daytime critical frequencies at Poitiers, as reported by Meudon, have improved over recent levels and averaged 7.3MHz. The 6th was up to 8.3MHz which was the highest level for the past 2 months. The darkness hour lows averaged 3.5MHz with periods of blanketing E being reported some days. The highs are now at about 20.00 hours and the lows 04.00 hours.

I'll repeat the figures. Highs - 7.3MHz; lows - 3.5MHz.

Now the ionospheric data for the north:

The F2 daytime critical frequencies at Ekaterinberg averaged 6.2MHz and the darkness hour lows 4.3MHz.

The latest forecast for the minimum of cycle 22, based on the time since the first spotless day reported in the autumn of 1993, will be late 1996.

I'll repeat the figures: Highs - 6.2MHz; lows - 4.3MHz.

And lastly the solar forecast:

This week, the active side of the sun will be rotating away. Solar flux

levels are expected to be about the 80s, geomagnetic levels are expected to be quiet becoming unsettled towards the end of the week. MUFs are expected to be about 21MHz in the south during daylight, and 14MHz for the darkness hours. Northern levels will be down on these. Sporadic E is still present most days on 10 and 6 metres, but the intensity is declining.

And that's the end of the solar information.

Finally in the main news, SSL has informed the Society that as of last Wednesday morning, the latest callsigns issued were in the G0 Uniform Zulu and G7 Sierra Lima series, and Novice calls in the 2 0 Alpha India and 2 1 Delta Delta series.

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GB2RS is prepared by the Radio Society of Great Britain and is broadcast in the 80m, 40m, 6m and 2m bands.
Tel +44 707 659015 Fax +44 707 645105

End of Info-Hams Digest V94 #801
